

We claim:

1. A multilayer packaging for greasy products or part of such a packaging, comprising
  - a substrate layer of a polymeric material as the main component and
  - at least one layer applied to the substrate layer, which does not form the exterior of the packaging, and which comprises a high-amylose starch derivative with an amylose content of at least 70% as the main component, wherein the high-amylose starch derivative is a C<sub>2</sub>-C<sub>6</sub>-alkylene-oxide-modified starch derivative.
2. The multilayer packaging according to claim 1, wherein the high-amylose starch derivative is a C<sub>2</sub>-C<sub>4</sub>-alkylene-oxide-modified starch derivative.
3. The multilayer packaging or part of such a packaging according to claim 1, wherein the C<sub>2</sub>-C<sub>6</sub>-alkylene oxide is propylene oxide.
4. The multilayer packaging or part of such a packaging according to any of the preceding claims, wherein the high-amylose starch derivative is obtained by modifying if appropriate partially degraded maize, wheat, potato, HA-pea or tapioca starch.
5. The multilayer packaging or part of such a packaging according to any of the preceding claims, wherein the degree of derivatization of the starch derivative amounts to 0.1 to 1, more preferably to 0.1 to 0.4.
6. The multilayer packaging or part of such a packaging according to any of the preceding claims, wherein the polymeric material of the substrate layer is a naturally occurring polymer, preferably cellulose.
7. The multilayer packaging or part of such a packaging according to any of the preceding claims, wherein the layer comprising a high-amylose starch derivative as main component comprises additional constituents selected among pigments, plasticizers, agents which improve the long-term stability, agents which improve the water resistance and agents which influence the elasticity.
8. The use of a C<sub>2</sub>-C<sub>6</sub>-alkylene-oxide-derivatized high-amylose starch as main component of a layer of a multilayer packaging which is applied to a substrate layer of this packaging made of a polymeric material, for generating greaseproofness of the multilayer packaging.

9. The use according to claim 8, wherein the C<sub>2</sub>-C<sub>6</sub>-alkylene oxide is propylene oxide.
- 5 10. The use according to claim 8 or 9, wherein the starch derivative is obtained by modifying high-amylose potato starch and, if appropriate, has a degree of derivatization of from 0.1 to 1, more preferably of from 0.1 to 0.4.
- 10 11. The use according to any of claims 8, 9 or 10, wherein a high-amylose potato starch with an amylose content of at least 70% is used for the modification.
- 15 12. The use according to any of claims 8 to 11, wherein the abovementioned layer comprises additional components selected among pigments, plasticizers, agents which improve the long-term stability, agents which improve the water resistance, agents which improve the kit number and agents which influence the elasticity, preferably selected among glycerol, urea, borax or glyoxal.